

TOSHIBA DIODE SILICON EPITAXIAL SCHOTTKY BARRIER TYPE

# 1SS388

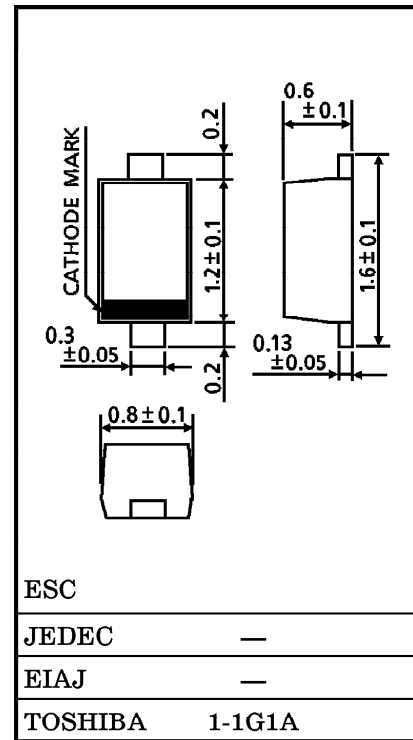
HIGH SPEED SWITCHING APPLICATION

Unit in mm

- Small Package
- Low Forward Voltage :  $V_{F(3)} = 0.54V$  (Typ.)
- Low Reverse Current :  $I_R = 5\mu A$  (Typ.)

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum (Peak) Reverse Voltage	$V_{RM}$	45	V
Reverse Voltage	$V_R$	40	V
Maximum (Peak) Forward Current	$I_{FM}$	300	mA
Average Forward Current	$I_O$	100	mA
Surge Current (10ms)	$I_{FSM}$	1	A
Power Dissipation	$P^*$	150	mW
Junction Temperature	$T_j$	125	°C
Storage Temperature Range	$T_{stg}$	-55~125	°C
Operating Temperature Range	$T_{opr}$	-40~100	°C



ESC

Weight : 1.4mg

※ Mounted on a glass epoxy circuit board of 20×20mm Pad dimension of 4×4mm.

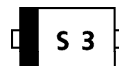
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	$V_{F(1)}$	$I_F = 1mA$	—	0.28	—	V
	$V_{F(2)}$	$I_F = 10mA$	—	0.36	—	
	$V_{F(3)}$	$I_F = 50mA$	—	0.54	0.60	
Reverse Current	$I_R$	$V_R = 10V$	—	—	5	$\mu A$
Total Capacitance	$C_T$	$V_R = 0, f = 1MHz$	—	18	25	pF

EQUIVALENT CIRCUIT (TOP VIEW)



MARKING



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